Destination Green: The Next Chapter

Ms. Jane Hupe
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Vision

Achieve the sustainable growth of the global civil aviation system.

Mission

To serve as the global forum of States for international civil aviation.

ICAO Strategic Objectives:

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<th>Safety</th>
<th>Security &amp; Facilitation</th>
<th>Environmental Protection</th>
<th>Air Navigation Capacity and Efficiency</th>
<th>Economic Development of Air Transport</th>
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**ICAO Strategic Objective on Environmental Protection:**

Minimize the adverse effect of global civil aviation on the environment

ICAO Environmental Goals

- Limit or reduce the number of people affected by significant aircraft noise
- Limit or reduce the impact of aviation GHG emissions on global climate
- Limit or reduce the impact of aviation emissions on local air quality (LAQ)

Quantify
Mitigate
Implement
And much happened since...

- Aeroplane CO$_2$ emissions Standard
- nvPM Engine Emissions Standard
- Adoption of the Global Air Navigation Plan (GANP) and quantification of environmental benefits of ASBU B0 and B1
- CORSIA
- ICAO 2050 Vision on Sustainable Aviation Fuel
- Science-based information on climate change adaptation
What could shape “green aviation”? 
External Drivers

Fourth Industrial Resolution:

“Technological revolution ... that is blurring the lines between the physical, digital, and biological spheres.”

Klaus Schwab
Aircraft End-of-life

Waste Management

Renewable Energy & Energy Efficiency

Natural Resources

Sustainable Design and Construction
Technology

Next generation aircraft
3D printing
Material science
Maintenance
Clean energy

IN THE AIR

First ICAO Stocktaking Seminar toward the 2050 Vision for Sustainable Aviation Fuels (30 April – 1 May 2019)

- Supportive views on policies/regulatory; frameworks, financing, assistance and outreach
- SAF will play a major role in reducing international aviation emissions;
- ICAO will continue to facilitate the stocktaking process through: Second ICAO SAF Stocktaking Seminar (28 – 29 April 2020)

ON THE GROUND

SOLAR-AT-GATE PROJECT

TERMINAL

- Pre-conditioned air
- Power 400Hz
- Batteries
- Electric submeter
- Solar
- Primary airport meter
- Utility grid
Green and resilient airports

• ICAO Seminar on Green Airports, in cooperation with ACI (8 and 9 May 2019)
• **Context:** air traffic growth drives the need for more airport infrastructure. They need to be environmentally sustainable.
  – Robust environmental management system is essential to secure loans in a capital intensive sector;
  – Guidance needed on climate change risk assessment;
  – Community engagement is a must;
  – Airports are engaged in expanding their social footprint: from business-to-business to business-to-people
Climate Change Adaptation

Flooding at Kansai International Airport, Japan after typhoon Jebi. Photo: JIJI PRESS / Getty Images

Svalbard Airport, Norway
No Country Left Behind:
The power of capacity-building
International aviation aspirational goals

- **Assembly Resolution A39-2**
  - Reaffirms the global aspirational goals of 2% annual fuel efficiency improvement and carbon neutral growth from 2020;
  - Requests the Council to continue to explore the feasibility of a long-term global aspirational goal for international aviation.

- **Industry (ATAG):** “aspirational goal to reduce net emissions from aviation by 50% by 2050 compared to 2005 levels” (ATAG, 2008)

- **IPCC Special Report on Global Warming of 1.5ºC.**
- **UNFCCC Paris Agreement** on domestic emissions sources.
- **2019 Climate Summit** calls for more ambitious action.
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<td>Session 12: ICAO Capacity-building and assistance activities on environmental protection – a success story</td>
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